

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

LIN *et al.*

Appl. No.: 10/661,648

Filed: September 12, 2003

For: **High Speed Data Service Via
Satellite Modem Termination
System and Satellite Modems**

Confirmation No.: 9489

Art Unit: 2611

Examiner: WONG, LINDA

Atty. Docket: 2875.0120002

Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. The required fee is provided through online credit card payment authorization in the amount of \$0.00 in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. The required fee is provided through online credit card payment authorization in the amount of \$0.00 in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

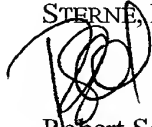
- ☒ 7. Copies of documents FP1-FP7 and NPL1-NPL12 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached IDS Forms are submitted.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
- ☐ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no(s). _____ in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to be 'RS', is written over the printed name of Robert Sokohl.


Robert Sokohl
Attorney for Applicants
Registration No. 36,013

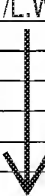
Date: June 29, 2007

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

DOC#693043_1.DOC

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/661,648
				Filing Date	September 12, 2003
				First Named Inventor	Dorothy D. LIN
				Art Unit	2611
				Examiner Name	WONG, LINDA
Sheet	1	of	1	Attorney Docket Number	2875.0120002

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if Known)			
	/L.W./	US1	5,406,570	04-01-1995	Berrou et al.
		US2	5,446,747	08-01-1995	Berrou
		US3	5,563,897	10-01-1996	Pyndiah et al.
		US4	6,065,147	05-01-2000	Pyndiah et al.
		US5	6,122,763	09-01-2000	Pyndiah et al.
		US6	6,119,264	09-01-2000	Berrou et al.
		US7	6,169,728 B1	01-02-2001	Perreault et al.
		US8	6,459,703 B1	10-01-2002	Grimwood et al.
		US9	6,594,467 B2	07-15-2003	Asia et al.
		US10	6,807,193 B1	10-19-2004	Beser
		US11	6,993,007 B2	01-31-2006	Gummalla et al.
		US12	7,002,914 B2	02-21-2006	Cloonan
		US13	2002/0036985 A1	03-28-2002	Jones et al.
		US14	2003/0058794 A1	03-27-2003	Pantelias et al.
		US15	2003/0069926 A1	04-10-2003	Weaver et al.
		US16	2003/0147411 A1	08-07-2003	Goosman
		US17	2004/0022307 A1	02-05-2004	Dale et al.
		US18	2004/0006771 A1	01-08-2004	Dale et al.
		US19	2004/0017830 A1	01-29-2004	Dale et al.
		US20	2004/0162020 A1	08-19-2004	Dale et al.

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ² Number ³ Kind Code ⁴ (if known)				
	/L.W./	FP1	EP 0 681 382 A2	11-08-1995	Chester	
		FP2	EP 0 735 696 A1	10-02-1996	Berrou	
		FP3	EP 1 387 546 A2	02-04-2004	Dale et al.	
		FP4	FR 2 675 970 A1	10-30-1992	Claude	
		FP5	WO 01/89123 A1	11-22-2001	Ewen et al.	
		FP6	WO 2003/092203 A2	11-06-2003	Dale et al.	
		FP7	WO 2003/092204 A2	11-06-2003	Dale et al.	
		FP8				
		FP9				

Examiner Signature	/Linda Wong/	Date Considered	12/19/2007
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/661,648
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				Art Unit	2611
				Examiner Name	WONG, LINDA
Sheet	1	of	2	Attorney Docket Number	2875.0120002

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
/L.W./	NPL1	European Search Report for EP 03 01 7352, dated October 27, 2006, 2 pages.	
↓	NPL2	Alessi, George et al., "Adapting the DOCSIS Protocols for Military Point-to-Multipoint Wireless Links," MILCOM 2000. 21st Century Military Communications Conference Proceedings, October 22-25, 2000, Piscataway, NJ, pp 80-84.	
	NPL3	Arunachalam, Arun, "Global Standardization Efforts of BWI Systems Based on Cable Modem," Emerging Technologies Symposium: Broadband, Wireless Internet Access, 2000 IEEE April 10-11, 2000, Piscataway, NJ, pp 1-4.	
	NPL4	D'Luna, Lionel J. et al., "A Single-Chip Universal Cable Set-Top Box/Modem Transceiver," IEEE Journal of Solid-State Circuits, IEEE Service Center, Piscataway, NJ, Vol. 34, No. 11, November 1999, pp 1647-1660.	
	NPL5	Research and Development: Communications/ Turbo Coding, from http://www.xenotran.com/turbo_tech_error_turbo.html , 5 pages (last visited March 11, 2002).	
	NPL6	Ryan, W.E., "A Turbo Code Tutorial," Proc. IEEE Globecom '98, IEEE, 9 pages (1998).	
	NPL7	Telecommunications and Mission Operations Directorate - DSN Technology Program, from http://www331.jpl.nasa.gov/public/TurboForce.GIF , 1 page (last visited March 11, 2002).	
	NPL8	Valenti, M.C., "Turbo codes and Iterative Processing," IEEE New Zealand Wireless Communications Symposium, 42 pages including tutorial slides (November 1998).	
	NPL9	Data-Over-Cable Service Interface Specifications, Radio Frequency Interface Specification, SP-RF1v1.1-I09-020830, Cable Television Laboratories, Inc., 1999-2002.	
	↓	NPL10	Digital Video Broadcasting (DVB); Interaction Channel For Satellite Distribution Systems, ETSI EN 301 790 v1.2.2 (2000-12), European Telecommunications Standards Institute, European Broadcasting Union, 2000, 99 pages.

Examiner Signature	/Linda Wong/	Date Considered	12/19/2007
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Sheet	2	of	2	Attorney Docket Number	2875.0120002

NON PATENT LITERATURE DOCUMENTS			
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/L.W./	NPL11	Copy of International Search Report for International Application No. PCT/US03/12642, dated December 18, 2003, 6 pages.	
/L.W./	NPL12	International Search Report issued November 14, 2003 for Appln. No. PCT/US03/12645, 6 pages.	
	NPL13		
	NPL14		
	NPL15		
	NPL16		
	NPL17		
	NPL18		
	NPL19		
	NPL20		

Examiner Signature	/Linda Wong/	Date Considered	12/19/2007
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